

August 2010

CURRICULUM VITAE

Patricia Michelle Hall
November 14, 1970

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Martinsburg, WV 25401
(304)-262-6489

Education:

Martinsburg High School

September 1985-June 1989

Martinsburg, WV

Graduated 12th in a class of over 200, GPA of 4.25, with an emphasis on college preparatory classes and upper level science and math classes. Including Chemistry II, Pre-Calculus, and Advanced Placement Calculus. Also participated in many extracurricular activities including Science Club, Computer Science Club, Math Field Day Teams, marching and concert bands, marching band Rifle Corps, Key Club, Thespians and the Orange and Black Record newspaper staff.

Shepherd University

August 1989-January 1991

Shepherdstown, WV

Completed approximately 30 semester hours in three semesters. Majorities of classes were core classes for Chemistry major. These classes included General Chemistry I and II with lab, Inorganic Chemistry, Organic Chemistry I and Lab, and Physics I and lab. During this time also assisted Dr. Tucker with grading lower level math papers and was lab assistant to the head of the Chemistry Department, Dr. Schmidt, for one semester. Also worked at the USDA Research Center in Bardane, WV as a biological research aide for one semester assisting with general lab duties such as making agar plates and tubes, culturing of fruit molds and general data keeping.

Frederick Community College

January 2002 – May 2008

Frederick, MD

Completed 7 credit hours towards a BS in science

Brief Chronology of Employment:

**NCI-Frederick Cancer Research and Development Center
Frederick, MD
Research Technician**

April 2003- present

- Responsibilities include: Nucleic acid isolation using many different techniques including, but not limited to phenol chloroform extractions and Agencourt Genfind Robotics system. Extractions performed on many different types of starting material including but not limited to cell pellets, buffy coats, whole blood, TES blood, tissue, hair, saliva and FFPE autopsy tissue.
- Constantly working on testing and developing new extraction techniques and protocols to maximize purity and yield of DNA.
- Logging DNA into the database, pulling and equilibrating DNA for specific studies, designing and making deep wells and plates for genotyping assays.
- Genotyping on the Illumina Genotyping platform using Goldengate, Infinium II and the Infinium Ultra assays.
- Genotyping using the Affymetrix SNP6.0 Assay
- Genotyping using the taqman assay as well as real time using the ABI9700 and SDS 2.0
- Sequencing using the ABI 3730
- Programming and running the Robbins Scientific Hydra on both 96 and 384 well platforms
- Running, programming and maintaining the Beckman robotics systems.
- Histopaque gradient blood separation for the isolation of B-cells for cell line immortalization
- Separation and aliquoting of other blood products including whole blood, plasma, serum and urine
- Receiving and cataloging samples from outside collaborators, making sure they are labeled and stored properly until ready for use in a project.
- All aspects of EBV suspension cell culture including but not limited to putting new cells in culture from frozen cells or from fresh blood, maintaining cells in culture and observing under an inverted microscope to look for cell transformation as well as making media, maintaining EBV cell lines and making EBV cocktail.
- Preparing and shipping sample to NIH as well as outside collaborators.
- Maintain proper levels of materials in the lab and order when needed

- Assist the Core Lab Manager in managing projects in the queue as well as training new personnel and in mentoring students through the SIP program.
- Filemaker database entry, manipulation and design.

NCI-Frederick Cancer Research and Development Center
2003
Frederick, MD
Production Technician

January 2001-April

- Responsibilities included: processing of whole blood shipped from various centers across the US and abroad.
- Maintenance of cell lines created from blood processing.
- Storage and maintenance of over 10,000 patient samples.
- Main technical functions include making feeder layers, splitting B95-8 cells and mixing EBV cocktail, feeding and splitting cells as cultures mature, making first viable LN2 freeze for backup, and all blood processing techniques.
- Helped to develop and implement protocols and techniques for a TGF Beta study to process blood to obtain plasma without platelets utilizing CTAD anticoagulant and a platelet stabilizer with special siliconized tubes and pipettes.

Special Skills: Ability to easily move from one complex technique to another, quick study of new techniques, able to multitask, works independently of others, great interpersonal skills and the ability to lead by example.

Database Skills: Database work including use of MegAllele Database, Affymetrix Database, SDS systems Database, Illumina Genotyping Database, Filemaker Pro, and Lotus. Am also proficient in the use of Microsoft Excel, Microsoft Word, and Access.

Community Involvement: Annually judge science fairs at local schools, volunteer to talk at career fairs, and to speak within science classes if the school requests.

Awards and Achievements: Scientific Achievement Award at the annual SAIC winter staff meeting 2001, Outstanding Performance Awards in 2003, 2004 and 2005 given in addition to annual Performance Review Award, National Honor Society, French National Honor Society, and Who's Who Among American High School Students.

Social Security Number: 233-33-5022

United States Citizen

REFERENCES

Ben Nye
Winston-Salem, NC
(336)-782-6288

Tieraney Oldman
Lexington, KY
(859)-264-8904

Beth Lybarger
Thurmont, MD
(240)-367-6433

Tracey Conrad-McAbee
Frederick, MD
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